**3GPP TSG-SA5 Meeting #141-e *S5-221026***

**Online, , 17th Jan 2022 - 26th Jan 2022**

|  |
| --- |
| *CR-Form-v12.1* |
| **CHANGE REQUEST** |
|  |
|  | **28.622** | **CR** | **0127** | **rev** | **-** | **Current version:** | **17.0.0** |  |
|  |
| *For* [***HE******LP***](http://www.3gpp.org/3G_Specs/CRs.htm#_blank)*on using this form: comprehensive instructions can be found at* [*http://www.3gpp.org/Change-Requests*](http://www.3gpp.org/Change-Requests)*.* |
|  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Proposed change affects:*** | UICC apps |  | ME |  | Radio Access Network | **X** | Core Network | **X** |

|  |
| --- |
|  |
| ***Title:***  | Alarm Record changes |
|  |  |
| ***Source to WG:*** | Ericsson Hungary Ltd |
| ***Source to TSG:*** | S5 |
|  |  |
| ***Work item code:*** | eNRM |  | ***Date:*** | 2022-01-03 |
|  |  |  |  |  |
| ***Category:*** | A |  | ***Release:*** | Rel-17 |
|  | *Use one of the following categories:****F*** *(correction)****A*** *(mirror corresponding to a change in an earlier release)****B*** *(addition of feature),* ***C*** *(functional modification of feature)****D*** *(editorial modification)*Detailed explanations of the above categories canbe found in 3GPP [TR 21.900](http://www.3gpp.org/ftp/Specs/html-info/21900.htm). | *Use one of the following releases:Rel-8 (Release 8)Rel-9 (Release 9)Rel-10 (Release 10)Rel-11 (Release 11)…Rel-15 (Release 15)Rel-16 (Release 16)Rel-17 (Release 17)Rel-18 (Release 18)* |
|  |  |
| ***Reason for change:*** | Managed elements often don't support acknowledgement of alarms as this is veiwed as higher layer management functionality; thus there is no need to duplicate it at the ManagedElement level.The operation *acknowledgeAlarms* in TS 28.532 clause 11.2.1.2.1.1 is optional. The functionality should also be optional in the SBMA/NRM.  |
|  |  |
| ***Summary of change:*** | In the data type AlarmRecord make the attributes ackUserId, ackTime and ackState optional to support. |
|  |  |
| ***Consequences if not approved:*** | As many network nodes don't implement the alarm acknowledgement functionality, they will not be compliant to the specification or just imitate the 3 attributes without real functionality behind them. |
|  |  |
| ***Clauses affected:*** | 4.37.2 |
|  |  |
|  | **Y** | **N** |  |  |
| ***Other specs*** |  | **X** |  Other core specifications  | TS/TR ... CR ...  |
| ***affected:*** |  | **X** |  Test specifications | TS/TR ... CR ...  |
| ***(show related CRs)*** |  | **X** |  O&M Specifications | TS/TR ... CR ...  |
|  |  |
| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** |  |

***First change***

#### 4.3.27.2 Attributes

The attributes are defined in clause 11.2.2.1.5.1 of TS 28.532 [27]. Many of them are based on definitions in ITU-T X.733 [31].

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute name** | **S** | **isReadable**  | **isWritable** | **isInvariant** | **isNotifyable** |
| alarmId | M | T | F | T | F |
| objectInstance | M | T | F | T | F |
| notificationId | M | T | F | T | F |
| alarmRaisedTime | M | T | F | F | F (note 5) |
| alarmChangedTime | O | T | F | F | F (note 6) |
| alarmClearedTime | M | T | F | F | F (note 7) |
| alarmType | M | T | F | T | F |
| probableCause | M | T | F | T | F |
| specificProblem | O | T | F | T | F |
| perceivedSeverity | M | T | T (note 4) | F | F(note 6) |
| backedUpStatus | O | T | F | F | F |
| backUpObject | O | T | F | F | F |
| trendIndication | O | T | F | F | F |
| thresholdInfo | O | T | F | F | F |
| stateChangeDefinition | O | T | F | F | F |
| monitoredAttributes | O | T | F | F | F |
| proposedRepairActions | O | T | F | F | F |
| additionalText | O | T | F | F | F |
| additionalInformation | O (see note 3) | T | F | F | F |
| rootCauseIndicator | O | T | F | F | F |
| ackTime  | M | T | F  | F | F |
| ackUserId  | M | T | T (see note 8) | F | F |
| ackSystemId  | O | T | T (see note 8) | F | F |
| ackState  | M  | T | T (see note 8) | F | F |
| clearUserId | O (see note 1) | T | T | F | F |
| clearSystemId | O (see note 1) | T | T | F | F |
| serviceUser | O (see note 2) | T | F | F | F |
| serviceProvider | O (see note 2) | T | F | F | F |
| securityAlarmDetector | O (see note 2) | T | F | F | F |
| NOTE 1: These attributes and qualifiers are applicable only if producer supports consumer to set perceivedSeverity to CLEARED.NOTE 2: These attributes are supported if the producer emits notifyNewAlarm that carries security alarm information.NOTE 3: This attribute is supported to carry vendor specific information.NOTE 4: This isWritable property is True only if producer supports consumer to set perceivedSeverity to CLEAREDNOTE 5: Emit notifyNewAlarm.NOTE 6: Emit notifyChangedAlarmNOTE 7: Emit notifyClearedAlarmNOTE 8: This isWritable property is True only if producer supports the consumer to acknowledge alarms. |

***End of changes***